

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

My residence, post office address and citizenship is as stated below next to my name.

# MEKK1 MOLECULES AND USES THEREOF

[ x ] is attached hereto.

Serial No. \_\_\_\_\_

on

and was amended

on

(if applicable)

Serial No. \_\_\_\_\_

on \_\_\_\_\_

and was amended under PCT Article 19

on \_\_\_\_\_

(if applicable)

I acknowledge the duty to disclose information which is material to the patentability of the claims of this application in accordance with Title 37, Code of Federal Regulations, Sections 1.56(a) and 1.56(b).

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

EXPRESS MAIL LABEL NO. EL521665185US

DATE OF DEPOSIT 10-27-00

**PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS  
UNDER 35 U.S.C. §119(a)-(d) or 365(b):**

COUNTRY (if PCT indicate PCT)	APPLICATION NUMBER	DATE OF FILING	PRIORITY CLAIMED UNDER 35 U.S.C. §119(a)- (b) or 365(b) (YES/NO)
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I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional patent application(s) listed below:

APPLICATION NUMBER	DATE OF FILING	STATUS: (PENDING OR ABANDONED)
--------------------	----------------	-----------------------------------

I hereby claim the benefit under Title 35, United States Code, § 120 or 365(c) of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112. I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior applications and the national or PCT international filing date of this application:

**PRIOR U.S. APPLICATION OR PCT INTERNATIONAL APPLICATION(S)  
DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. § 120 or 365(c):**

APPLICATION NUMBER	DATE OF FILING (day, month, year)	STATUS: (PATENTED, PENDING OR ABANDONED)
--------------------	--------------------------------------	---

**POWER OF ATTORNEY:** As named inventors, we hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith

Alter, Scott M.	32,879
Baker, Hollie L.	31,321
Barakat, Barbara A.	32,190
Barrett, Steven D.	40,903
Bevilacqua, Michael J.	31,091
Byrne, Sally	40,545
Cerveny, David J.	44,600
Chiu, Ph.D., Nancy	43,545
Diener, Michael A.	37,122
Dichiara, Peter M.	38,005
Discher, Gregory S.	42,488
Donner, Irah H.	35,120
Goldenberg, Richard A.	38,895
Grieff, Edward D.	38,898
Kennard, Wayne M.	30,271
Keown, Ph.D., Wayne A.	33,923

0042201-8667898-102700

Kerner, Ph.D., Ann-Louise	33,523
Kahng, Anthony	42,704
Klunder, Ph.D., Janice M.	41,121
Lampert, James B.	24,564
Lari, Ayla A.	43,739
Lippert, Nels	25,888
Maebius, Maria L.	42,967
Massa, Dominic	44,905
McIsaac, Ph.D., Robert	46,918
Park, Keum J.	42,059
Reyes, Jason A.	41,513
Rice, Ph.D., Gretchen A.	37,429
Steinberg, Donald R.	37,241
Superko, Colleen	39,850
Swaim, C. Hall	22,838
Vallabh, Rajesh	35,761
Wilson, M. Lisa	34,045
Wixon, Henry N.	32,073
Yeh, Luke	43,296

the mailing address and telephone number of each of whom is HALE AND DORR LLP, 60 State Street, Boston, Massachusetts 02109 and (617) 526-6000, with full power of substitution and revocation to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

**Send Correspondence To**

**Colleen Superko  
Hale and Dorr LLP  
60 State Street  
Boston, MA 02109**

**Direct Telephone Calls To**

**Colleen Superko  
(617) 526-6564**

Wherefore I petition that letters patent be granted to me for the invention or discovery described and claimed in the attached specification and claims, and hereby subscribe my name to said specification and claims and to the foregoing declaration, power of attorney, and this petition.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements

were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**Full name of first and joint inventor:** Vito J. Palombella

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Country of Citizenship: United States

Residence: 15 Morningside Road, Needham, MA 02492

**Full name of second and joint inventor:** Sha-Mei Liao

Inventor's signature Sh Mei Liao Date 10/26/2000

Country of Citizenship: People's Republic of China

Residence: 39 Winchester Drive, Lexington, MA 02420

004207-888-102700

colleen superko - z:\legal\103576.144\ptodocs\decpoa.doc

**DECLARATION AND POWER OF ATTORNEY**  
**(Attorney Docket No. 103576.144)**

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship is as stated below next to my name.

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**MEKK1 MOLECULES  
AND USES THEREOF**

the specification of which (check only one):

- ☒ [ x ] is attached hereto.
- ☐ [ ] was filed as United States Patent Application  
Serial No. \_\_\_\_\_  
on \_\_\_\_\_  
and was amended  
on \_\_\_\_\_  
(if applicable)
- ☐ [ ] was filed as PCT Patent Application  
Serial No. \_\_\_\_\_  
on \_\_\_\_\_  
and was amended under PCT Article 19  
on \_\_\_\_\_  
(if applicable)

007207 888 102700  
I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of the claims of this application in accordance with Title 37, Code of Federal Regulations, Sections 1.56(a) and 1.56(b).

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

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COUNTRY (if PCT indicate PCT)	APPLICATION NUMBER	DATE OF FILING	PRIORITY CLAIMED UNDER 35 U.S.C. §119(a)- (b) or 365(b) (YES/NO)
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DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. § 120 or 365(c):**

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Vallabh, Rajesh	35,761
Wilson, M. Lisa	34,045
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the mailing address and telephone number of each of whom is HALE AND DORR LLP, 60 State Street, Boston, Massachusetts 02109 and (617) 526-6000, with full power of substitution and revocation to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

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Hale and Dorr LLP  
60 State Street  
Boston, MA 02109**

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**Colleen Superko  
(617) 526-6564**

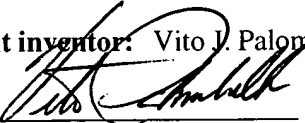
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements

were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**Full name of first and joint inventor:** Vito J. Palombella

Inventor's signature

 Date 10-25-2000

Country of Citizenship: United States

Residence: 15 Morningside Road, Needham, MA 02492

**Full name of second and joint inventor:** Sha-Mei Liao

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Country of Citizenship: People's Republic of China

Residence: 39 Winchester Drive, Lexington, MA 02420

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